

High Performance Blackbody Calibration Source

BLACK POINT™ BB702



- ✓ Calibrates From Ambient 10 to 215°C (Ambient 20 to 420°F)
- ✓ Portable, Rugged Design
- ✓ Calibrates Infrared Pyrometers Quickly and Accurately
- ✓ Built-In Digital PID Autotune Temperature Controller with Temperature Readout
- ✓ NIST-Traceable Calibration Certificate Included with Three Data Points
- ✓ RS232 Standard
- ✓ Tilt Stand for Benchtop Operation and Easy Portability
- ✓ Built-In RTD Reference Probe Output

The BB702 blackbody calibrator is a high performance, rugged, portable calibrator for infrared pyrometers. The BB702 has a range of ambient 10 to 215°C (ambient 20 to 420°F). Both models come standard with an RS232 computer interface which allows computer control of the setpoint for automatic text applications. A NIST-traceable calibration certificate is also provided.

Caution: To avoid fire hazard or damage to your calibrator, always allow your calibrator to cool down to ambient temperature before returning to storage.

Specifications

Target Plate Temperature Range:

Ambient 10 to 215°C
(ambient 20 to 420°F)

Accuracy: ±0.5°C, ±0.25% rdg
(±0.9°F, ±0.25% rdg)

Stability: ±0.1°C (±0.2°F)

Ambient Environmental Conditions:

Temperature: 5 to 45°C (41 to 113°F)

Humidity: 0 to 90% RH,
non-condensing

Target Plate Size: 63.5 mm (2.5")

Target Plate Emissivity: 0.95

Internal Control Sensor: Platinum RTD,
class A, alpha = 0.00385

Reference Sensor: Platinum RTD,
class A, alpha = 0.00385

Warm-Up Time: 12 min from ambient
to 204°C (400°F)

Power:

BB702: 115 Vac, 50/60 Hz, 75 W

BB702-230VAC: 230 Vac,
50/60 Hz, 75 W

Dimensions:

152 H x 305 W x 280 mm L
(6 x 12 x 11")

Weight: 7.2 kg (16 lb)

Certifications: CE (230 Vac model only)

Installation Category: II

We make running changes when technical advances allow. Check at time of ordering for additional features.

To Order Visit newportUS.com/bb702 for Pricing and Details

Model No.	Description
BB702	BB calibration source, 115V, range: ambient 10 to 215°C (ambient 20 to 420°F)
BB702-230VAC*	BB calibration source, 230V, range: ambient 10 to 215°C (ambient 20 to 420°F)

Comes complete with operator's manual and NIST calibration certificate.

* **Note:** Only 230 Vac model is available as CE marked.

Ordering Example: BB702, blackbody calibration source. OCW-3